



Attorney's Docket No.: 07148-108001 / A15-549.01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jan G. Jaworski et al.

Art Unit : 1638

Serial No. : 09/877,476

Examiner : E. McElwain

Filed : June 8, 2001

Title : FATTY ACID ELONGASE 3-KETOACYL COA SYNTHASE POLYPEPTIDES

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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RESPONSE

In response to the Office Action mailed February 26, 2003, please amend the application as follows:

In the Specification:

Please replace the paragraph bridging pages 9 and 10 with the following amended paragraph:

a The above-described polypeptides include a first polypeptide segment that can serve as a membrane anchor. Such a segment has properties that result in the elongase KCS polypeptide being anchored to a membrane, such as a lipid bilayer, detergent bilayer, micelle, or cell membrane. Possession of membrane anchoring properties may be the result of the primary structure, secondary structure and/or tertiary structure of the segment. For example, the segment may contain one or more transmembrane domain(s). Alternatively, a post-translational modification of an amino acid residue within the segment can result in the polypeptide being anchored to a membrane. Suitable modifications include, but are not limited to, covalent attachment of a lipid (e.g., a glycosyl phosphatidylinositol anchor) or a carbohydrate (e.g., an oligosaccharide). See, Alberts et al., *The Cell*, 2nd Edition, Garland Publishing, New York, pp 284-298 and Lodish et al., *Molecular Cell Biology*, 3rd Edition, Scientific American Books,

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